

Map 4C Area 1.1 p. 6-15

Composite Figures- Area of Objects made up of a series of regular and irregular objects

Example 1 p. 7

Dance Floor

$A_c = A_R + A_G$
 $A_R = l \times w$
 $= 10 \times 8$
 $= 80 \text{ m}^2$
 $A_G = \frac{1}{2} \pi r^2$
 $= \frac{3.14 (5)^2}{2}$
 $= \frac{3.14 (25)}{2}$
 $= \frac{78.5}{2}$
 $= 39.25$

$A_c = 80 + 39.25$
 $= 119.25 \text{ m}^2$

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Example 2 p. 8

width 15

length 24

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Example 2 p. 8

$A_c = A_R - 2(A_T)$
 $A_R = l \times w$
 $15 = 24 \times 15$
 $= 360 \text{ m}^2$
 $A_T = 2 \left(\frac{b \times h}{2} \right)$
 $= 2 \left(\frac{5 \times 5}{2} \right)$
 $= 25$
 $= 121 \text{ m}^2$
 $A_c = 360 - 121$
 $= 239 \text{ m}^2$

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Example 3 p. 9 & 10

Conversion and Cost

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Example 3 p. 9 & 10

Conversion and Cost

$A_R = l \times w$
 $= 25 \times 12$
 $= 300 \text{ ft}^2$
 $A_T = \frac{b \times h}{2}$
 $= \frac{25 \times 7}{2}$
 $= 87.5 \text{ ft}^2$
 $A_c = 300 + 87.5 - 18$
 $= 369.5 \text{ ft}^2$
 $= 739 \text{ ft}^2 \times 0.0929 \text{ m}^2/\text{ft}^2$
 $= 68.7 \text{ m}^2$
 $68.7 / 45 = 1.52$
 You would need two cans of paint to cover the area.

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Key Concepts

- convert irregular shapes in a series of regular shapes
- make sure all units are equal
- apply strategy ; add regular composite shapes together or subtract composite shapes from the total shape

Hmk. p11-15 q 1, 4-9 13*

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